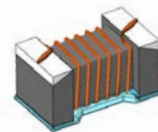


Wire Wound Chip Ferrite Inductor - MWSD-FE Series

Operating Temp. : -40°C~+85°C



FEATURES

- Small chip suitable for surface mounting
- Large inductance with ferrite material
- Single-sided package, thinner than WL-FS series

APPLICATIONS

- Mobile phones, video cameras and other electronic devices
- Bluetooth modules and TWS earphones

PRODUCT IDENTIFICATION

MWSD

①

1608

②

F

③

E

④

2R2

⑤

□

⑥

T

⑦

| | |
|------|--------------------------|
| Type | |
| MWSD | Wire Wound Chip Inductor |

| | |
|--------------------------------|----------|
| External Dimensions (L×W) (mm) | |
| 1608 [0603] | 1.6×0.8 |
| 2012 [0805] | 2.0×1.25 |

| | |
|---------------|---------|
| Material Code | |
| F | Ferrite |

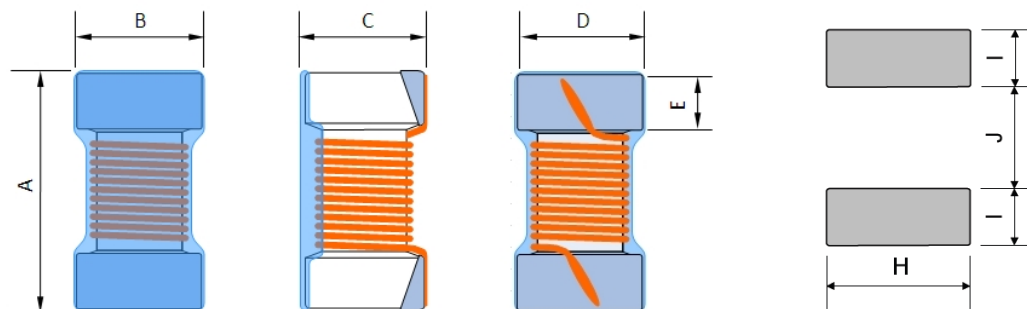
| | |
|---------------|---------------|
| Internal Code | |
| E | Internal Code |

| | |
|--------------------|---------------|
| Nominal Inductance | |
| Example | Nominal Value |
| 2R2 | 2.2μH |
| 100 | 10μH |

| | |
|----------------------|------|
| Inductance Tolerance | |
| K | ±10% |
| M | ±20% |

| | |
|---------|--------------|
| Packing | |
| B | Bulk Package |
| T | Tape & Reel |

SHAPE AND DIMENSIONS



Unit: mm

| Series | A | B | C | D Typ. | E Ref. | H Ref. | I Ref. | J Ref. |
|------------|----------|----------|----------|--------|--------|--------|--------|--------|
| MWSD1608FE | 1.80 Max | 1.20 Max | 1.00 Max | 0.92 | 0.30 | 1.15 | 0.64 | 0.64 |
| MWSD2012FE | 2.40 Max | 1.65 Max | 1.30 Max | 1.28 | 0.48 | 1.50 | 1.02 | 0.96 |

SPECIFICATIONS

MWSD1608FE TYPE

| Part Number | Inductance | Tolerance | L Test Freq. | DC Resistance | Typ. Rated Current | Typ. Self-resonant Frequency |
|-----------------|---------------|-----------|--------------|---------------|--------------------|------------------------------|
| Units | μH | - | MHz | Ω | mA | MHz |
| Symbol | L | - | Freq. | DCR | I _r | S.R.F |
| MWSD1608FE2R2□T | 2.2 | K,M | 7.9 | 0.56±30% | 580 | 103 |
| MWSD1608FE4R7□T | 4.7 | K,M | 7.9 | 0.97±30% | 420 | 51 |
| MWSD1608FE6R8□T | 6.8 | K,M | 7.9 | 1.50±30% | 340 | 43 |
| MWSD1608FE100□T | 10 | K,M | 2.5 | 1.85±30% | 280 | 36 |
| MWSD1608FE150□T | 15 | K,M | 2.5 | 2.60±30% | 240 | 29 |
| MWSD1608FE220□T | 22 | K,M | 2.5 | 2.80±30% | 200 | 24 |
| MWSD1608FE470□T | 47 | K,M | 2.5 | 6.65±30% | 100 | 14 |

MWSD2012FE TYPE

| Part Number | Inductance | Tolerance | L Test Freq. | DC Resistance | Typ. Rated Current | Typ. Self-resonant Frequency |
|-----------------|---------------|-----------|--------------|---------------|--------------------|------------------------------|
| Units | μH | - | MHz | Ω | mA | MHz |
| Symbol | L | - | Freq. | DCR | I _r | S.R.F |
| MWSD2012FE2R2□T | 2.2 | K,M | 7.9 | 0.22±30% | 1040 | 87 |
| MWSD2012FE4R7□T | 4.7 | K,M | 7.9 | 0.43±30% | 840 | 51 |
| MWSD2012FE6R8□T | 6.8 | K,M | 7.9 | 0.68±30% | 700 | 46 |
| MWSD2012FE100□T | 10 | K,M | 2.5 | 0.85±30% | 560 | 31 |
| MWSD2012FE150□T | 15 | K,M | 2.5 | 1.40±30% | 380 | 28 |
| MWSD2012FE220□T | 22 | K,M | 2.5 | 1.76±30% | 340 | 20 |

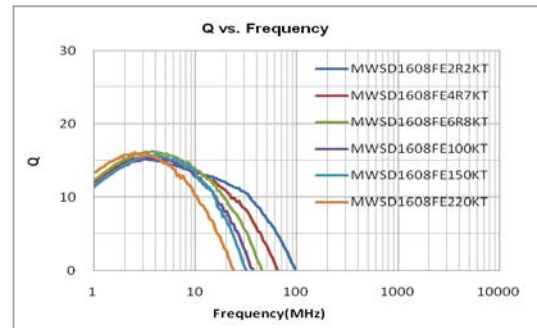
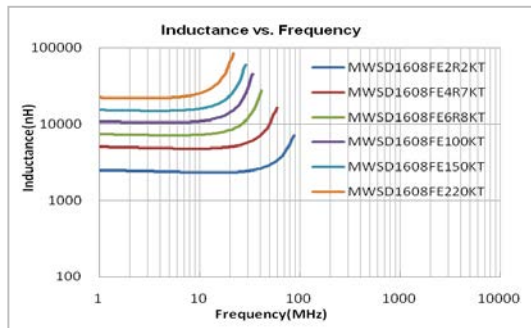
※□: Please specify the inductance tolerance code (K=±10%, M=±20%).

TYPICAL ELECTRICAL CHARACTERISTICS

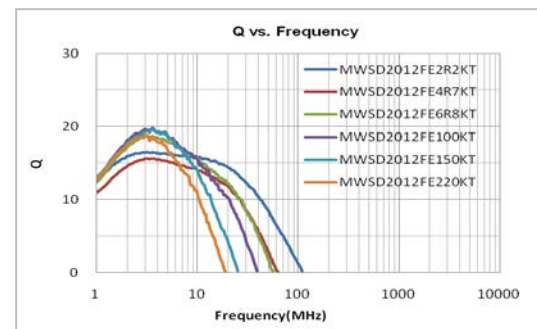
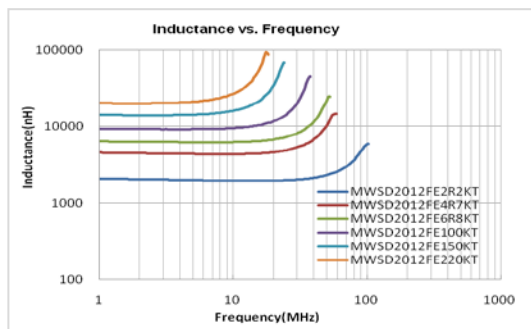
Inductance vs. Frequency Characteristics

Q vs. Frequency Characteristics

MWSD1608FE TYPE



MWSD2012FE TYPE



Sunlord

Specifications subject to change without notice. Please check our website for latest information. Revised 2019/04/01

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[MLZ1608N1R5LT000](#) [B82432C1333K000](#) [PCMB053T-1R0MS](#) [PCMB053T-1R5MS](#) [PCMB104T-1R5MS](#) [CR32NP-100KC](#) [CR32NP-](#)

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[CR32NP-8R2MC](#) [CR43NP-390KC](#) [CR43NP-560KC](#) [CR43NP-680KC](#) [CR54NP-181KC](#) [CR54NP-470LC](#) [CR54NP-820KC](#) [CR54NP-8R5MC](#)

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